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(54) **BIOCOMPATIBLE BLOCK COPOLYMER**

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a biocompatible block copolymer which contains at least two kinds of chemically different polymer blocks bonded to each other through a specific compd. and hence is suitable for producing medical implants and surgical aids.

SOLUTION: This biocompatible block copolymer contains at least two kinds of chemically different polymer blocks and is obtd. by linear polycondensation of at least two α, ω -dihydroxypolyesters and/or α, ω -dihydroxypolyethers with a diisocyanate, a diacid halide, or phosgene. An α, ω -dihydroxypolyester is obtd. by the transesterification of poly-(R)-3-hydroxybutyric acid or a 3-hydroxybutyric acid/3-hydroxyvaleric acid copolymer and ethylene glycol. The block copolymer is degradable in the human or animal body and is suitable for producing medical implants and surgical aids.